

Morrison Planetarium

Sky Shows

Spacewars, Starships, and Extraterrestrials look at the themes of popular science fiction films and asks the question "Is it science or is it fiction?" Is it possible to travel faster than light? to rocket through a black hole? to hear explosions in the airless atmosphere of space? You can answer these questions after seeing Spacewars, Starships, and Extraterrestrials through September 14.

From July 1 through September 1, sky shows can be seen on Monday through Fridays at 2:00 and 3:30 p.m. and on Saturdays, Sundays and holidays at 1:00, 2:00, 3:00, and 4:00 p.m.

Due to the popularity of the shows, members are asked to be at the Planetarium box office at least ten minutes before the performance to be assured of a seat.

Exploring the Skies of the Season offers a chance to see the night skies over San Francisco in spite of the summer fog. Scorpius, Sagittarius, and the Summer Triangle are easily visible in the summer skies. From July 1 through September 1, shows are on weekdays at 12:30 p.m. and Saturdays and Sundays at noon.

Laserium

Laserium offers four laser shows—**Crystal Odyssey: A Classical Fantasy**, **Laserspace**, **Genesis**, and **Pink Floyd**. Tickets are \$5 for adults and \$3 for seniors and children 6-12. (Crystal Odyssey has a special adult price of \$4.) Members are reminded that their complimentary planetarium passes are not valid for Laserium shows. For show times call (415) 750-7138.

Special Evening in the Planetarium

Emerald Web

August 4, 5, 6, 8:00 p.m.

Bob Stohl and Kat Epple weave three evenings of magic with the electronic music of Emerald Web. A variety of recent synthesizer and flute works played under the starry skies of the planetarium dome will create a memorable evening of musical enjoyment.

Tickets are \$5 for members, and \$7 for non-members. For tickets by mail; send a check payable to Morrison Planetarium and a self-addressed, stamped envelope to Morrison Planetarium, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. Call (415) 750-7127 for information.

Special Exhibits



The Great Central Valley Project

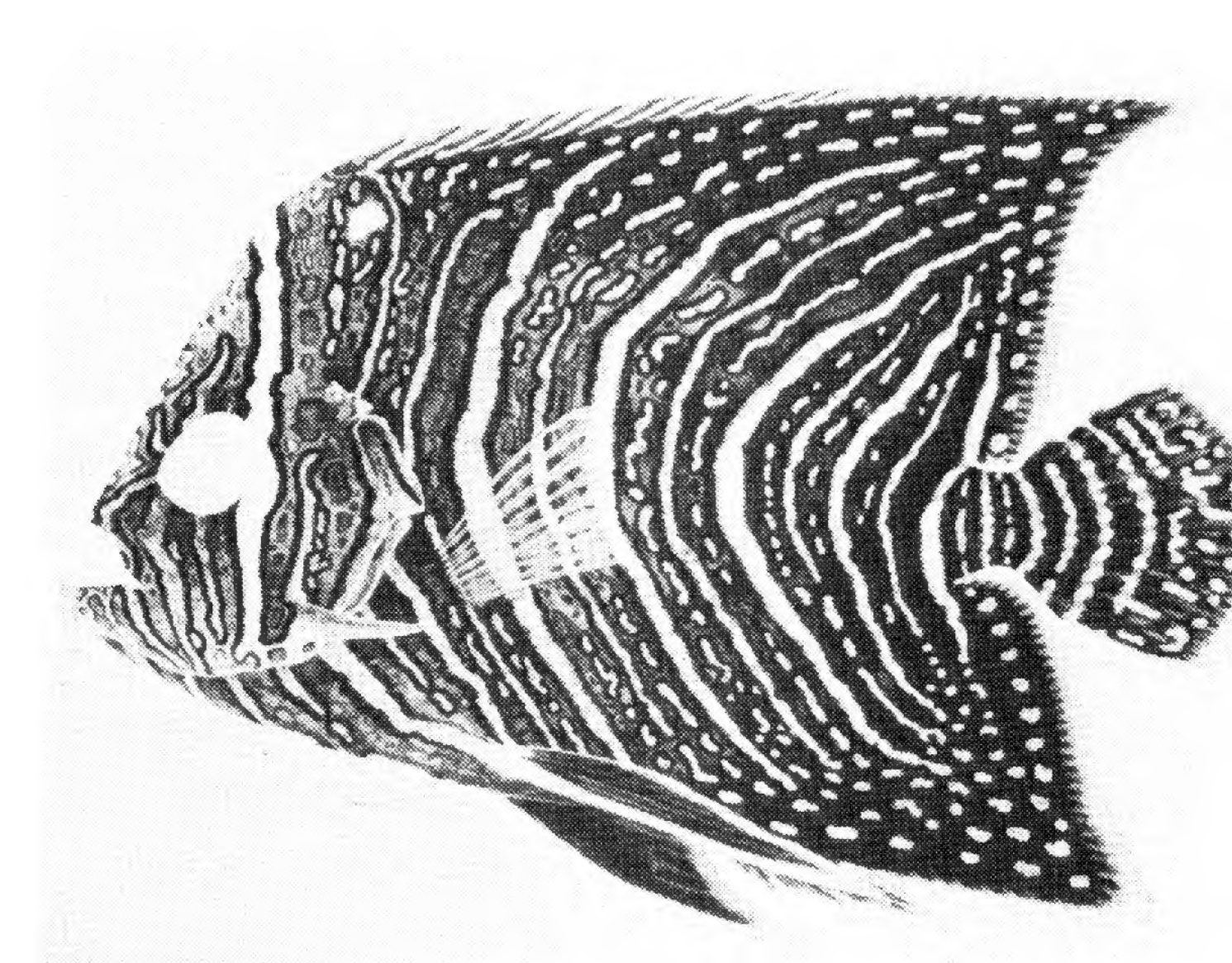
highlighting the richest agricultural region on Earth opens July 3. Two native sons of the central valley, Robert Dawson and Stephen Johnson, have combined historic photographs by Carleton Watkins and Dorothea Lange with their own work to capture the many faces of this fertile land which produces 25% of the food consumed in America. Like pieces of a grand mosaic, the large color photographs of the land, the people, the farms and the cornucopia of agriculture tell the story of the last 150 years in the Great Central Valley. The exhibition continues through October 12 in Lovell White Hall.

The Great Central Valley Project has been made possible by The California Arts Council, California Council for the Humanities, Eastman Kodak Company, Fleishhacker Foundation, Wilson and Geo. Meyer & Co., Professional Color Lab, San Francisco, L.J. and Mary Skaggs Foundation, van Loben Sels Foundation and Wells Fargo Foundation.

Lifelong Safari opens August 8 featuring the work of Dr. Edward S. Ross, Curator Emeritus of Entomology at the Academy. Dr. Ross's lifetime fascination with insects has led him on expeditions to the most remote corners of the world to study and collect insects for the museum. His acclaimed photographs of insects, scientific paraphernalia from nearly 50 years of trekking, and stunning collections of insects from the department of Entomology describe the life and work of the research scientist. This exhibit will continue in Hohfeld I and II through the spring of 1987.

Museum visitors can learn how to begin their own lifelong safari on August 10 at Safari Day. See the Special Events section of this newsletter for details.

The winning entries in the **Fourth Annual Photography Contest for Young People** are on display in Cowell Hall Gallery through September 1. Each year this competition attracts work from photographers 18 and under, who display a remarkably high level of artistic sophistication and technical ability. The contest is sponsored by KRON-TV and the Academy of Sciences.



Prismacolor Nature Drawings features the work of Rod MacPherson, the artist who illustrates the legends in Steinhart Aquarium. MacPherson has a rare ability to depict marine life with a flair for color and light that does not sacrifice scientific accuracy. These colorful drawings can be seen in Lower Cowell Gallery through September 15.

Traditional Arts

The Phyllis Wattis Traditional Arts Series

offers visitors to the museum a chance to share in some of the diverse cultural traditions that are being kept alive in the Bay Area. These free programs are held every Saturday at 1:00 p.m. in Wattis Hall of Man and are funded by a grant from the Paul L. and Phyllis Wattis Foundation.

JULY

July 5—The spirit of Trinidad comes alive to the music of Val Serrant playing indigenous *kaisos* (calypsos) on the steel drum.

July 12—No Program

July 19—In the traditional Japanese manner, Sachiko Helava weaves baskets using round reeds.

July 26—Well-known in the Bay Area, the Conjunto Cespedes perform exciting Cuban guitar music in the *son* style—a blend of African drums with Spanish guitars.

AUGUST

August 2—Avotcja Jiltonilro demonstrates the time-consuming process of making a West African *shekere*—a percussion instrument fashioned from a gourd and finished with beaded decoration.

August 9—Farm Ian Sae Chow and Chiow Kouei Sae Phan prepare two bean dishes, *to kam* and *to kouei*, dietary staples of the Mein people of Laos.

August 16—Celeste Conner, of Chiricahua-Apache descent, shows a variety of beadworking techniques she learned as a child from her grandmother.

August 23—Jim Bartz recreates a neighborly roll-up-the-rug dance party with his old-time country music, tall tales, and folklore repertoire.

August 30—Recently arrived from Ethiopia, Elsa Marshall creates coil baskets typically used by her family to store and carry household items.

S

pecial Events



Aboriginal And Torres Strait Island Dancers

Tuesday, July 1 **8 p.m.**
Morrison Auditorium Free

THE EVENING PERFORMANCE IS FOR MEMBERS ONLY

Wednesday, July 2 **Noon**
Central Courtyard of the Academy Free

Two ancient traditions from Australia will be presented by groups of Aboriginal and Torres Strait Island Dancers. Using didjeridoo, clap sticks and voice as musical accompaniment, six Aboriginal men will present totemic dances, epic poems, mime and theater that are used to renew the "dreamtime"—the spiritual life of the Aboriginal people. The people of Torres Strait, who are of Melanesian origin, will perform dances in strict unison to the beat of traditional drums and a distinctive vocal line. The tour of these two groups is sponsored by the Aboriginal Artists' Agency and the Australian Government.

The evening performance for members only will be limited to the first 400 arrivals. There are no advance reservations; the doors will open at 7:15. Be sure to bring your Academy membership card.

If you are unable to attend the performances at the Academy, the groups will also appear on North Field adjacent to Lowie Museum in Berkeley at noon on July 1.



SAFARI DAY !!!

Sunday, August 10 **Noon to 4 p.m.**

Free after admission to the museum.

Never again will you have to say, "I'm not sure what it is" when showing off those treasures from the attic. On Safari Day, visitors can bring objects—animal, vegetable or mineral—for identification by experts from the Academy's various scientific departments. Specialists on snakes, fish, flowers, insects, baskets, clocks, bones, gems, . . . just about everything under the sun . . . will be on hand. Butterfield's is sending Jon King, an expert of Americana, particularly furniture and decorative arts. (Sorry, we can't make appraisals, only identification.) Children can learn how to start a natural history collection at home, take part in a "Design a Bug" contest, go on safaris around the natural history museum, and talk with scientists about their jobs. A visit to Safari Day could be your passport to a lifetime of scientific adventure, plus an afternoon of fun for the entire family. Safari Day is made possible by a grant from the people at Chevron.

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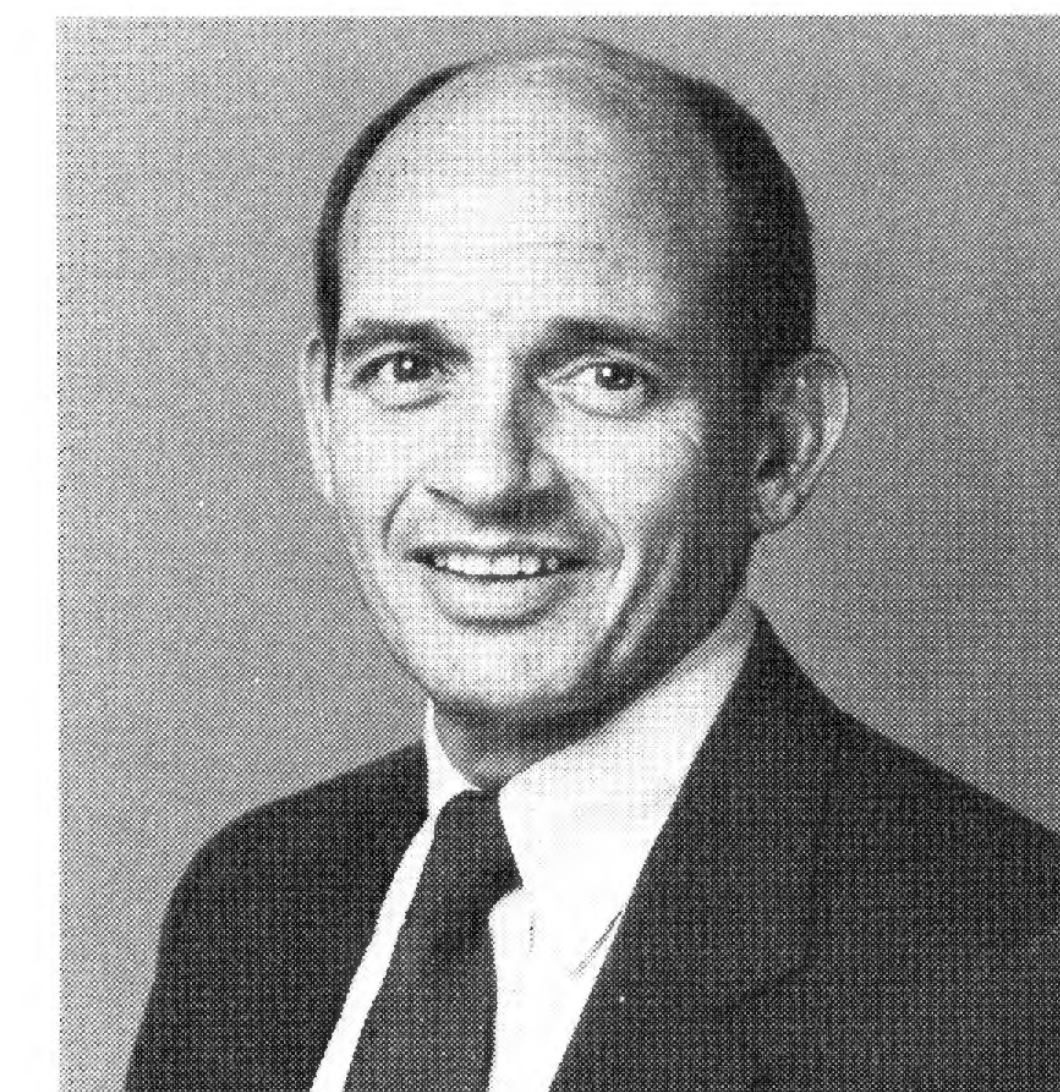
nside the Academy

Enjoy an early summer evening outing with your family or friends by visiting the Academy. From July 4 through Labor Day the museum is open every day from 10 a.m. to 7 p.m.

The San Francisco Gem and Mineral Society will present its 32nd Annual Golden Gateway to Gems Show on August 2 and 3 at the Hall of Flowers in Golden Gate Park. In addition to displays of lapidary and minerals from around the world there will be demonstrations of faceting, intarsia and carving. The Academy will exhibit two cases of rare pieces—ammonites from Shasta County and minerals of California. Academy members will receive a 50¢ discount on the admission price. Hours are Saturday from 10 a.m. to 6 p.m. and Sunday from 10 a.m. to 5 p.m.

Members . . . lend us your ears! **Antenna Tours** will be available in the Aquarium beginning July 1. Produced by the internationally-renowned Antenna Theater, these 40 minute audio cassette tours offer an informative and entertaining dive into the aquarium world with Lloyd Bridges, Aquarium Director Dr. John McCosker, and the specialists who make the spectacular tank displays. Headsets will be available for a discounted rate of \$1 for Academy members.

Mineral Hall and North American Hall will close this summer for seismic upgrading and renovation. Future newsletters will have details on these exciting changes.



Dr. Leighton R. Taylor, Jr. assumes the duties of a new position when he becomes Deputy Executive Director of the Academy on July 15. Taylor has taken a leave of absence from the Waikiki Aquarium where he has been Director since 1975. His wife, Linda, and daughter, Maria, will join him in San Francisco later this summer. Their son Rob, goes to college in Oregon.

Dr. Taylor received his Ph.D. in Marine Biology from the Scripps Institution of Oceanography and joined the faculty of University of Hawaii in 1972. He has been a Research Associate of the Academy for many years, and his name became forever linked with the discovery of a new family of sharks when "Megamouth" was netted off the coast of Hawaii in 1976. (Some members may recall Taylor "gave" the rare specimen as a birthday gift to his friend and classmate, Dr. John McCosker, but shipping bills were too high to actually move it to San Francisco.) His research interests have taken him to many exotic locales including Micronesia, New Guinea, Galapagos, and to Dangerous Reef, South Australia.

Dr. Taylor will be working closely with Executive Director, Dr. Frank H. Talbot, to help accomplish the important long-range master plan to improve science education and amenities at the Academy.

Art of the Americas

The Meridian Nights series of evening lecture/performances in Morrison Auditorium at the Academy highlights the cultural arts of North, Central and South America. The programs are sponsored by the Society of Art Publications of the Americas (SAPA) and the Academy of Sciences.

Emily Carr: Painter of the Northwest Coast And Its Native People

Thursday, July 3

Wine and cheese: 7:00 p.m.
Presentation: 7:30 p.m.

Ted Lindberg will survey the work of Emily Carr, a visionary Canadian artist who lived a reclusive existence in the woods of the Northwest Coast. Carr's life and work will be compared with that of Georgia O'Keefe.



Contemporary Native American Art

Wednesday, August 6

Wine and cheese: 7:00 p.m.
Presentation: 7:30 p.m.

Jaune Quick-to-See Smith, a celebrated artist of French-Cree and Shoshone descent who resides in New Mexico, will discuss contemporary Native American art and her own sources of inspiration. This event is co-hosted by American Indian Contemporary Arts (AICA).

Tickets for each evening are \$5 at the door; the price includes wine and cheese. For information call June Anderson in the Anthropology Department at (415) 750-7164.

Adult Education and Travel

The summer months offer many opportunities for adults with an interest in natural history to learn more about the world around them. For information call the Adult Education Office at (415) 750-7100.

Biology of Mammals: Part I

August 7 - 28

A Day with Arthropods

August 24

Birds From Mono Lake to Mono Pass

July 3 - 6

Stanford Linear Accelerator

July 23

Yosemite Transect

August 15 - 17

Academy Expeditions

Plan your travels with the California Academy of Sciences. There are diverse destinations with adventure and education for every traveler. For information call the Academy Travel Office at (415) 750-7222.

PROJECT ANTARCTICA

January 9 - 23, 1987

Splendid isolation, icebound beauty and countless penguins are just a few of the experiences that lead many travelers to regard Antarctica as the destination of a lifetime. This 15-day itinerary begins in Santiago, Chile. After a day of sightseeing, travelers will fly to Puerto Williams, the southernmost town in South America, to board the *Society Explorer*. This comfortable 250 foot ship carries only 100 passengers and has the highest possible ice rating for an expedition cruise ship. The cruise takes passengers around legendary Cape Horn, along Drake's Passage with its abundant seabirds and marine mammals, to the Antarctic Peninsula, where plans are to stop at such places as Deception, Nelson and King George Islands, and Paradise Bay. Travelers will go ashore in Zodiac lan-

ding crafts to visit research stations, marvel at horseshoe-shaped caldera, picnic on the edge of an extinct volcano, swim in thermal hot springs, and experience the rare thrill standing knee-deep in crowds of penguins.

This journey to the tip of the world is co-sponsored by the Academy and Harvard's Museum of Comparative Zoology, whose director Dr. James McCarthy, will combine his expertise with that of Dr. John McCosker, Director of Steinhart Aquarium, to acquaint travelers with the unique inhabitants of this rich world. Cabin prices range from \$3990 to \$6150 per person double occupancy plus \$1400 airfare from Miami.

Other 1986 expeditions include:

GRAND CANYON WHITEWATER EXPEDITION

August 17 - 31

\$1396 plus air fare to Las Vegas

A NATURALIST'S AUSTRALIA

August 14 - September 7

\$3100 land plus \$1816 air fare

ALASKAN ODYSSEY CRUISE

August 30 - September 11

\$2810 - \$3990 cruise plus air fare

AMERICA'S OWN: Chesapeake Bay and the Smithsonian

September 23 - October 4

\$2400 - \$2542 plus \$298 air fare

JUNGLE RIVERS OF SOUTH AMERICA: The Orinoco and the Amazon

September 30 - October 15

\$3990 to \$8690 plus \$1220 air fare

A WILDLIFE SAFARI TO INDIA AND NEPAL

October 28 - November 20

\$3452 plus \$1805 air fare

THE YUCATAN

October 31 - November 16

\$1895 land plus \$446 air fare

The Month At A Glance

JULY

- 1 Aboriginal dancers—8 p.m.
- 2 Aboriginal dancers—noon
- 3 **Great Central Valley Project** opens
- 3 Lecture—Emily Carr
- 5 Traditional Arts—Calypsos
- 9 Members' Meeting
- 10 Members' Meeting
- 19 Traditional Arts—Japanese baskets
- 26 Traditional Arts—Cuban guitar

AUGUST

- 2 Traditional Arts—African drum making
- 4 Emerald Web in Planetarium
- 5 Emerald Web in Planetarium
- 6 Emerald Web in Planetarium
- 6 Lecture—Native American art
- 8 **Lifelong Safari opens**
- 9 Traditional Arts—Laotian food
- 10 **Discovery Day**
- 13 Members' Meeting
- 14 Members' Meeting
- 16 Traditional Arts—beadwork
- 23 Traditional Arts—folk music and tales
- 30 Traditional Arts—African baskets

July Members' Meetings

Dates & Times

Matinee, 2:00 p.m., Wednesday, July 9
Evenings, 8:00 p.m., Wednesday and
Thursday, July 9 and 10

Place

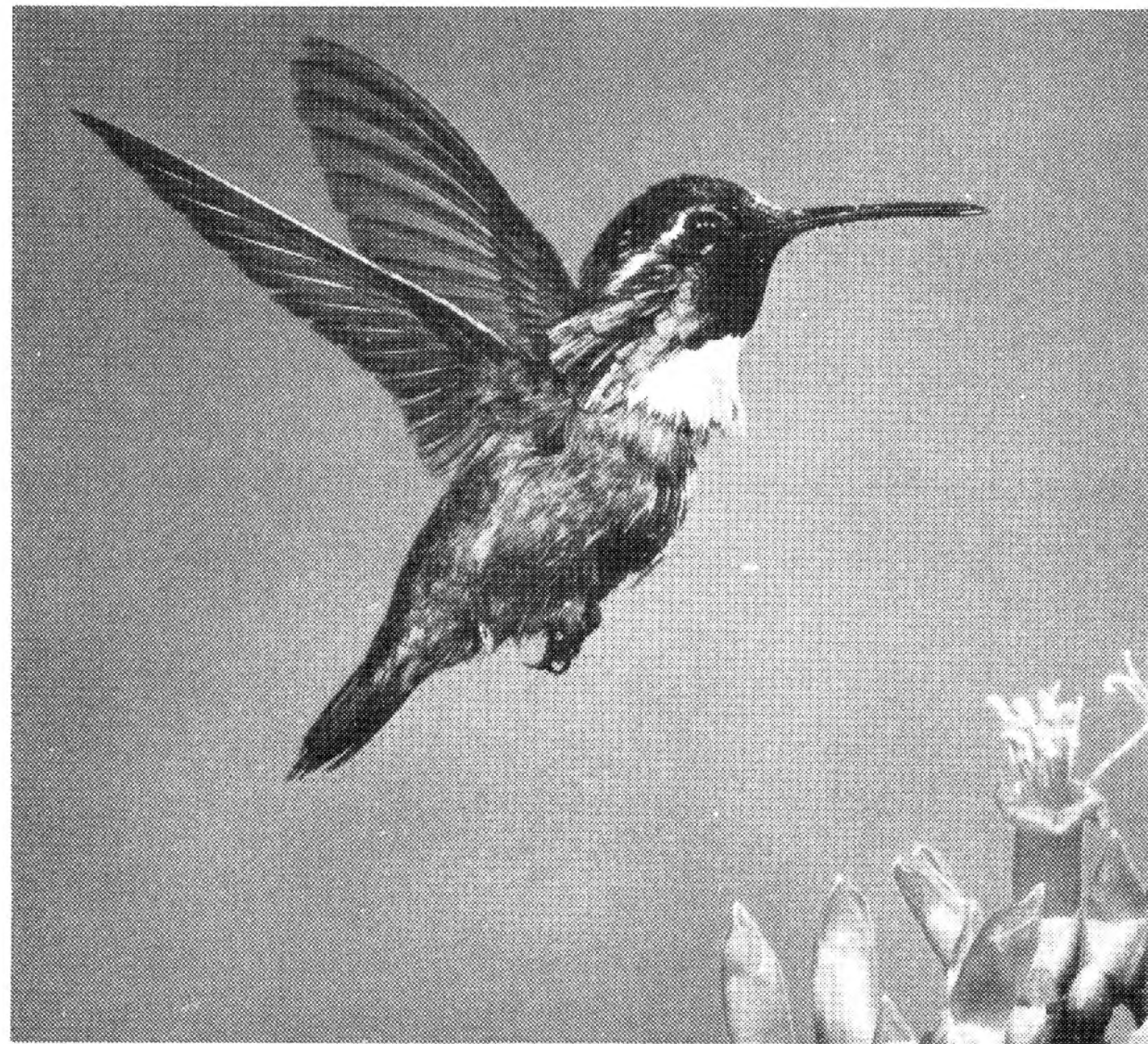
Morrison Auditorium

Speakers

Robert and Esther Tyrrell

Subject

Hummingbirds: Their Life and Behavior



Hummingbirds, their wings beating 80 times per second and their feathers flashing with iridescence, are as difficult to photograph as any animal in nature. But Robert Tyrrell has had both the patience and the expertise to capture these tiny dynamos in vivid close-up, stop-action photographs. The Tyrrells recently completed a 30,000 mile trek around the United States and Mexico recording the flight ability, courtship, nesting behavior and territorial aggression of these birds, many of which are seldom seen except by the most avid bird-watcher. The Tyrrells' work has appeared in *National Geographic*, *Natural History Magazine* and most recently in their book *Hummingbirds: Their life and Behavior*.

August Members Meeting

Dates & Times

Matinee, 2:00 p.m., Wednesday, August 13
Evenings, 8:00 p.m., Wednesday and
Thursday, August 13 and 14

Place

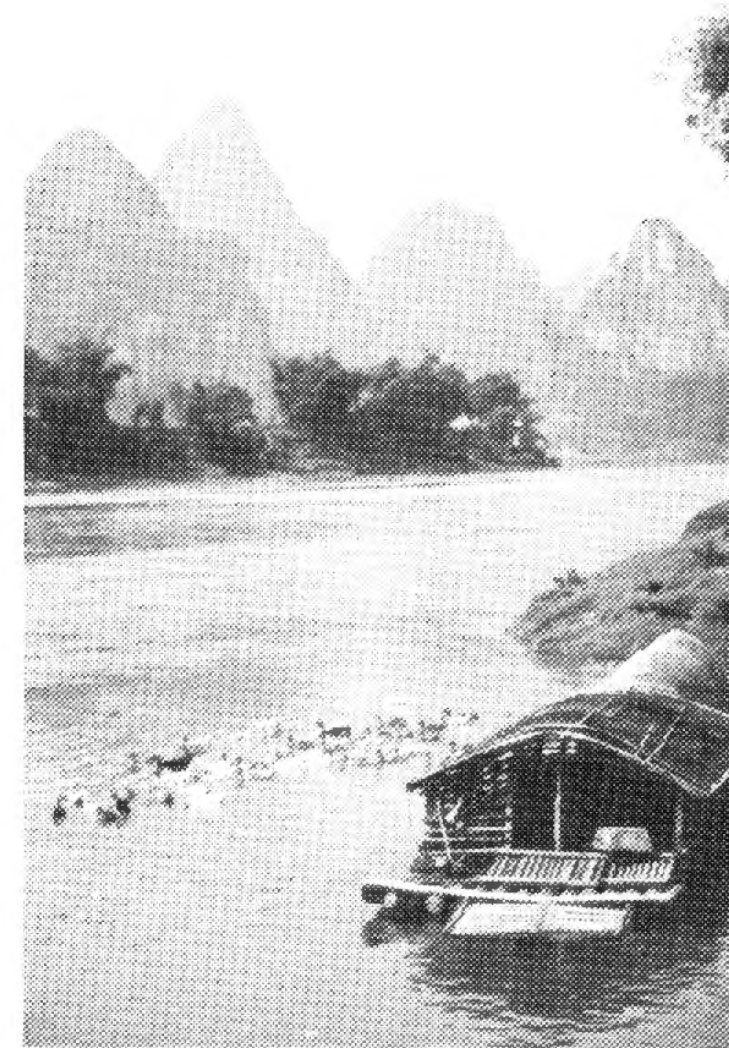
Morrison Auditorium

Speaker

John King

Subject

Traveling Solo through China and Tibet



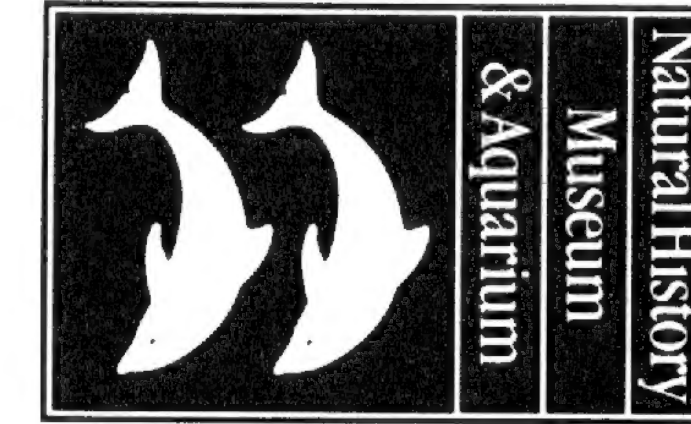
Last year almost 1.4 million travelers to China swarmed through the major cities and outward to the ethnic fringes of Mongolia, the Silk Road, and Tibet. The visitors not only experienced the rich and tumultuous past and present of the most populous country on earth, but left an indelible mark on the country that hosted them. John King will present a program of slides, music, and commentary focusing on three capital cities: staid and beautiful Beijing; Chengdu; the capitol of Sichuan, and Lhasa; the political and spiritual center of China's newest province, Tibet. Mr. King, who spent a year traveling and teaching in China, will suggest ways for the solo traveler with a plan-as-you-go attitude to have the adventure of a lifetime.

Sneak Preview: September 10 and 11, Dr. Herbert Guenther will reflect on "Lahul, Nepal: In Another Time."

Golden Gate Park
San Francisco, California 94118-9961
(415) 221-5100

Time Dated Material

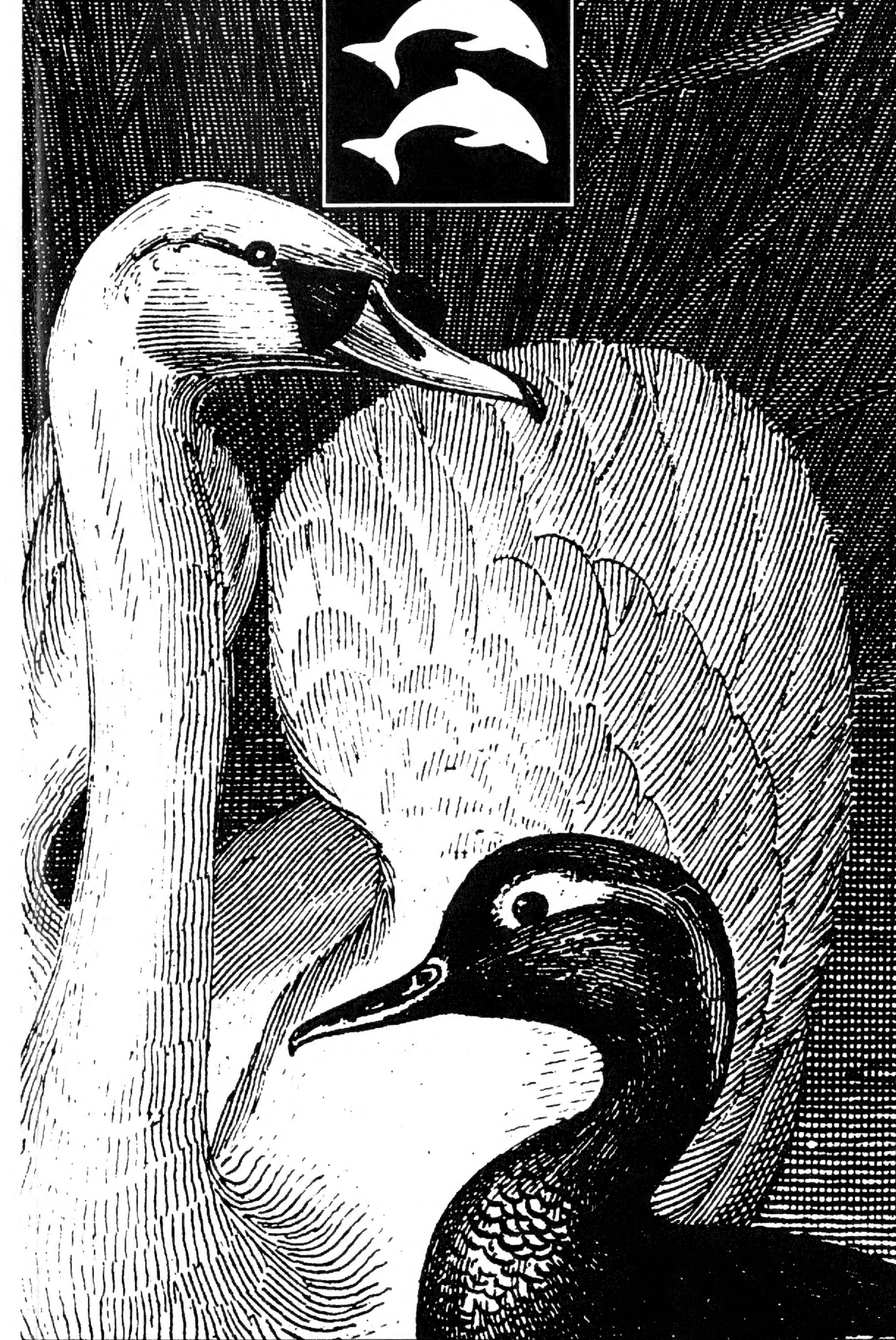
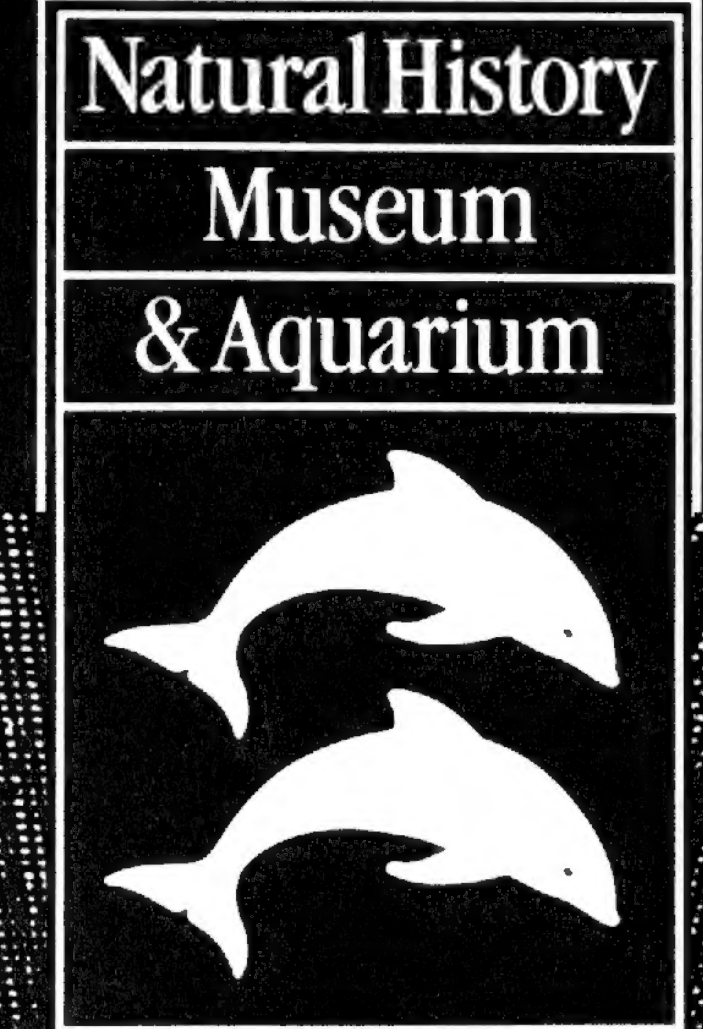
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Fourth of July through Labor Day

California Academy of Sciences

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